



ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		430 (BLUE)		nm	
		585 (YELLOW)		nm	
FORWARD VOLTAGE (B/Y)		4.5/2.1	5.5/2.5	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
AXIAL INTENSITY (B/Y)		25/40		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		$2x$ theta	
EMITTED COLOR:	POSITION 1-SUPER BLUE				
	POSITION 2-YELLOW				
EPOXY LENS FINISH:	POSITION 1-BLUE DIFFUSED				
	POSITION 2-YELLOW DIFFUSED				

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$  PER LED

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(B/Y)	100/150	mA
STEADY CURRENT		30	mA
POWER DISSIPATION	(B/Y)	98/105	mW
DERATE FROM $25^\circ\text{C}$	(B/Y)	-1.0/-1.6	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.		-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.		+260	$^\circ\text{C}$
2.0mm FROM BODY			3 SEC. MAX

\*  $t < 10\mu\text{s}$

NOTES:

- SSL-LX3044SBD/A, SUPER BLUE LED.
- SSL-LX3044YD, YELLOW LED.
- SSH-LXH2103 HOLDER.

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=+DECIMAL PRECISION MAX.=+0.00 -DECIMAL PRECISION

REV. PART NUMBER  
SSF-LXH2103SBYD/2

CONFIDENTIAL INFORMATION  
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.



290 E. HELLEN ROAD  
PALATINE, ILLINOIS 60067  
PHONE: (847) 359-2790  
WEB: <http://www.lumex.com>

T-3mm (T-1) LED, PIGGY-BACK HOLDER,  
POS. 1: BLUE LED, BLUE DIFFUSED LENS,  
POS. 2: YELLOW LED, YELLOW DIFFUSED LENS.

RELIABILITY NOTE  
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

DRAWN BY: SK CHECKED BY: APPROVED BY: DATE: 5-17-00  
PAGE: 1 OF 1  
SCALE: N/A